WHAT IS CLAIMED IS:

1. A transmit-receive switching circuit of a wireless communication system comprising:

a selecting portion for switching a communication system in a waiting mode into a master;

a controller for determining a transmit-receive frequency according to the operating of the selecting portion and generating a control signal;

a band selecting portion for selecting an inputting signal of an upper band or a lower band of a receiving signal passing through an antenna and a duplexer according to the control signal of the controller;

a first switching portion for selecting any one of an upper band pass filter and a lower band pass filter that are operated by the band selecting portion;

an amplifying portion for amplifying a receiving signal passed through the switching portion; a second switching portion for switching the receiving signal amplified at the amplifying portion according to the operating signal of the band selecting portion to determine on supplying it to an upper band filter or a low band pass filter of a second filter;

a mixer for mixing the receiving signal passing through the second filter with a local oscillating frequency from a local oscillator;

a filtering portion for filtering an intermediate frequency from the mixed frequency; and,

a transmit mode determining portion for determining/transmitting a transmit frequency according to a signal outputted from the band selecting portion.

2. A transmit-receive switching method comprising steps of :

judging whether the communication system is a master to try the communication;

switching the transmit-receive channel, automatically, to place the transmit channel on the upper band and the receive channel on the lower band, firstly, if it is determined as the master;

performing the transmit-receive operating at a state determined by the first transmit-receive channel switching step;

judging whether the transmit-receive operating is finished and switching the transmit-receive mode into the waiting mode if finished;

judging whether the communication system is a slave, if the communication system is not the master at the mater judging step; and

switching the transmit-receive channel, automatically, to place the transmit channel on the upper band and the receive channel on the lower band, secondly, if it is determined as the slave.

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